

(Date of Deposit)

 (Signature)

 (Date of Signature)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

: Group Art Unit: 2862

Ray Fli Lee, et al.

: Examiner: Diego Gutierrez

Patent No. 6,833,700

Issued: December 21, 2004

For: METHOD AND APPARATUS FOR RECONSTRUCTION OF IMAGES IN PARALLEL MRI
 SYSTEMS

CERTIFICATE OF CORRECTION

Honorable Assistant Commissioner of Patents and Trademarks,

Alexandria, VA

SIR:

Please find attached a Certificate of Correction submitted to correct issued patent 6,833,700 to correct the equation in claim 10.

The error in publishing Claim 10 comes in the equation where the third character from the left (T) should be a superscript instead of a subscript.

Claims 10 should read as follows:

10. A method for reconstruction for use in a parallel MRI system wherein a plurality of MR detector coils are arranged in an array and each coil has a corresponding spatial sensitivity profile, the method comprising:

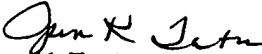
detecting a plurality of gradient-encoded MR signals from the plurality of MR detector coils;
 processing the detected MR signals with at least one filter bank to reconstruct at least one image; and

wherein the filter bank and the intermediate filter bank satisfies an equation in accordance with

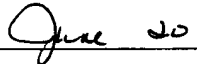
$$G(z)^T = (z^{-d} 0 \dots 0) F_a^{-1}(z) V^{-1}(z^m), \text{ wherein } G(z) \text{ represents a synthesis}$$

filter bank $F_a(z)$ is an aliasing component matrix of the sensitivity profiles F , z^{-d} is a time delay, V is an additional filter bank inserted between the decimation stage and the interpolation stage for stability and M is a decimation factor.

Respectfully submitted,


Jean K. Testa
Reg. No. 39,396

General Electric Company
Building K1, Room 3A62
One Research Circle
Niskayuna, New York 12309

, 2005

Telephone: (518) 387-5115 or
(518) 387-7122

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,833,700

DATED : December 21, 2004

INVENTOR(S) : Ray Fli Lee, Christopher Judson Hardy

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

10. A method for reconstruction for use in a parallel MRI system wherein a plurality of MR detector coils are arranged in an array and each coil has a corresponding spatial sensitivity profile, the method comprising:

detecting a plurality of gradient-encoded MR signals from the plurality of MR detector coils;

processing the detected MR signals with at least one filter bank to reconstruct at least one image; and

wherein the filter bank and the intermediate filter bank satisfies an equation in accordance with

$$G(z)^T = (z^{-d} 0 \dots 0) F_a^{-1}(z) V^{-1}(z^M),$$
 wherein $G(z)$ represents a synthesis filter bank $F_a(z)$ is an aliasing component matrix of the sensitivity profiles F , z^{-d} is a time delay, V is an additional filter bank inserted between the decimation stage and the interpolation stage for stability and M is a decimation factor.

MAILING ADDRESS OF SENDER:

**GENERAL ELECTRIC COMPANY
CRD PATENT DOCKET RM 4A59
P.O. BOX 8, BLDG. K-1 - ROSS
SCHENECTADY, NEW YORK 12301**

Patent No. 6,833,700

No. of add'l copies
@ 30¢ per page

